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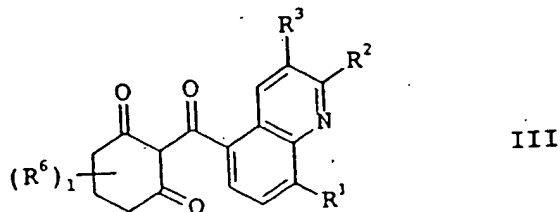
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CLEAN VERSION OF AMENDMENTS TO THE CLAIMS

Claim 6-9 has been amended to read as follows:

6.(amended) A process for preparing compounds of the formula I as claimed in claim 1

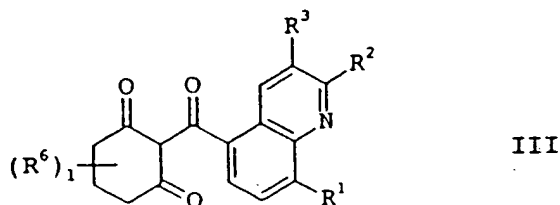
where R^5 = halogen, which comprises reacting a cyclohexanedione derivative of the formula III,



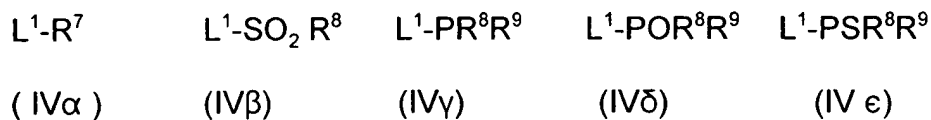
where the variables R^1 to R^3 , R^6 and I are each as defined in claim 1, with a halogenating agent.

7.(amended) A process for preparing compounds of the formula I as claimed in claim 1

where R^5 = OR^7 , OSO_2R^8 , OPR^8R^9 , $OPOR^8R^9$ or $OPSR^8R^9$, which comprises reacting a cyclohexanedione derivative of the formula III,



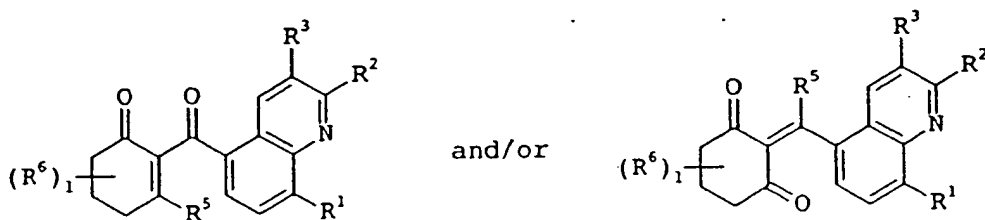
where the variables R^1 to R^3 , R^6 and I are each as defined in claim 1, with a compound of the formula $IV\alpha$, $IV\beta$, $IV\gamma$, $IV\delta$ or $IV\epsilon$,



where the variables R^7 to R^9 are each as defined in claim 1 and L^1 is a nucleophilically replaceable leaving group.

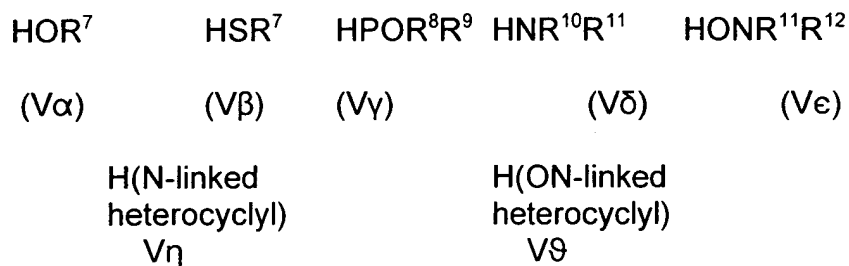
8.(amended) A process for preparing compounds of the formula I as claimed in claim 1

where $R^5 = OR^7, SR^7, POR^8R^9, NR^{10}R^{11}, ONR^{11}R^{12}$, N-linked heterocyclyl or O-(N-linked heterocyclyl), which comprises reacting a compound of the formula I α (\equiv I where $R^5 = \text{halogen, } OSO_2R^8$),



I where $R^5 = \text{halogen or } OSO_2R^8$

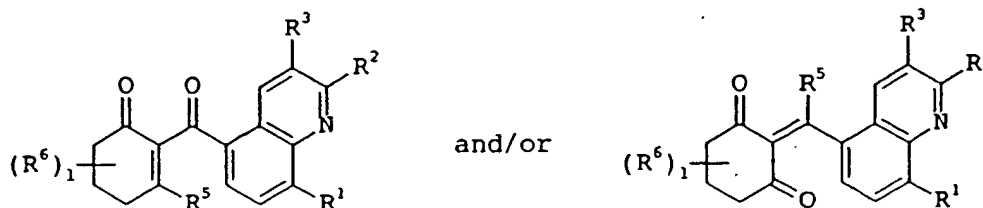
where the variables R^1 to R^3 , R^6 and I are each as defined in claim 1, with a compound of the formula $V\alpha, V\beta, V\gamma, V\delta, V\epsilon, V\eta, V\theta$,



where the variables R^7 to R^{12} are each as defined in claim 1, if appropriate in the presence of a base.

9.(amended) A process for preparing compounds of the formula I as claimed in claim

1, where $R^5 = \text{SOR}^8, \text{SO}_2\text{R}^8$, which comprises reacting a compound of the formula I β ($=\text{I}$ where $R^5 = \text{SR}^8$),

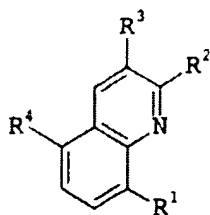


I where $R^5 = \text{SR}^8$

where the variables R^1 to R^8 and I are each as defined in claim 1, with an oxidizing agent.

New claims 14-25 have been added, to read as follows:

β' C3 14.(newly added) A cyclohexenonequinolinoyl derivative of the formula I



β' 2 where:

R^1 is hydrogen, nitro, halogen, cyano, $\text{C}_1\text{-C}_6\text{-alkyl}$, $\text{C}_1\text{-C}_6\text{-haloalkyl}$, $\text{C}_1\text{-C}_6\text{-alkoxyiminomethyl}$, $\text{C}_1\text{-C}_6\text{-alkoxy}$, $\text{C}_1\text{-C}_6\text{-haloalkoxy}$, $\text{C}_1\text{-C}_6\text{-alkylthio}$, $\text{C}_1\text{-C}_6\text{-haloalkylthio}$, $\text{C}_1\text{-C}_6\text{-alkylsulfinyl}$, $\text{C}_1\text{-C}_6\text{-haloalkylsulfinyl}$, $\text{C}_1\text{-C}_6\text{-alkylsulfonyl}$, $\text{C}_1\text{-C}_6\text{-haloalkylsulfonyl}$, aminosulfonyl, $-(\text{C}_1\text{-C}_6\text{-})$

*Sub
C₃
cont*

alkyl)aminosulfonyl,

N, N-di-(C₁-C₆-alkyl) aminosulfonyl,

N-(C₁-C₆-alkylsulfonyl)amino,

N-(C₁-C₆-haloalkylsulfonyl)amino,

N-(C₁-C₆-alkyl)-N-(C₁-C₆-alkylsulfonyl)amino,

N-(C₁-C₆-alkyl)-N-(C₁-C₆-haloalkylsulfonyl)amino,

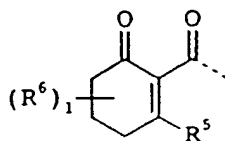
phenoxy, heterocycloxy, phenylthio or heterocyclthio, where the four last-mentioned radicals may be partially or fully halogenated and/or may carry one to three of the following substituents :

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl,

C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

R², R³ are hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl or halogen;

R⁴ is a compound IIa



IIa

where

R⁵ is halogen, OR⁷, SR⁷, SOR⁸, SO₂R⁸, OSO₂R⁸, POR⁸R⁹,

OPR⁸R⁹, OPOR⁸R⁹, OPSR⁸R⁹, NR¹⁰R¹¹, ONR¹¹R¹², N-linked

heterocyclyl or O-(N-linked heterocyclyl), where the

heterocyclyl radical of the two last-mentioned substituents

may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

B² cont

R⁷

is C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-haloalkenyl,
 C₃-C₆-alkynyl, C₃-C₆-haloalkynyl, C₃-C₆-cyloalkyl,
 C₁-C₂₀-alkylcarbonyl, C₂-C₆-alkenylcarbonyl,
 C₂-C₆-alkynylcarbonyl, C₃-C₆-cyloalkylcarbonyl,
 C₁-C₆-alkoxycarbonyl, C₃-C₆-alkenyloxycarbonyl,
 C₃-C₆-alkynyloxycarbonyl,
 (C₁-C₂₀-alkylthio)carbonyl,
 C₁-C₆-alkylaminocarbonyl,
 C₃-C₆-alkenylaminocarbonyl,
 C₃-C₆-alkynylaminocarbonyl,
 N,N-di-(C₁-C₆-alkyl)aminocarbonyl,
 N-(C₃-C₆-alkenyl)-N-(C₁-C₆-alkyl)aminocarbonyl,
 N-(C₃-C₆-alkynyl)-N-(C₁-C₆-alkyl)aminocarbonyl,
 N-(C₁-C₆-alkoxy)-
 N-(C₁-C₆-alkyl)aminocarbonyl, N-(C₃-C₆-alkenyl)-
 N-(C₁-C₆-alkoxy)aminocarbonyl, N-(C₃-C₆-alkynyl)-
 N-(C₁-C₆-alkoxy)aminocarbonyl, di-(C₁-C₆-alkyl)-
 aminothiocabonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl,
 C₁-C₆-alkoxyimino-C₁-C₆-alkyl,
 N-(C₁-C₆-alkylamino)imino-C₁-C₆-alkyl or
 N,N-di-(C₁-C₆-alkylamino)imino-C₁-C₆-alkyl, where
 the above-mentioned alkyl, cycloalkyl and alkoxy radicals may be partially
 or fully halogenated and/or may carry one to three of the following groups:
 cyano, C₁-C₄-alkoxy, C₁-C₄-alkylthio, di-(C₁-C₄-alkyl)amino, C₁-C₄-
 alkylcarbonyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkoxy-C₁-C₄-alkoxycarbonyl,
 di-(C₁-C₄-alkyl)amino-C₁-C₄-alkoxycarbonyl, hydroxycarbonyl, C₁-C₄-
 alkylaminocarbonyl, di-(C₁-C₄-alkyl)aminocarbonyl, aminocarbonyl, C₁-C₄-
 alkylcarbonyloxy or C₃-C₆-cycloalkyl;

Sub C3 cont

phenyl, heterocyclyl, phenyl-C₁-C₆-alkyl, heterocyclyl-C₁-C₆-alkyl, phenylcarbonyl-C₁-C₆-alkyl, heterocyclylcarbonyl-C₁-C₆-alkyl, phenylcarbonyl, heterocyclylcarbonyl, phenoxy, phenoxythiocarbonyl, heterocycliloxy, phenoxy-C₁-C₆-alkylcarbonyl, heterocycliloxy-C₁-C₆-alkylcarbonyl, phenylaminocarbonyl, N-(C₁-C₆-alkyl)-N-(phenyl)aminocarbonyl, heterocyclylaminocarbonyl, N-(C₁-C₆-alkyl)-N-(heterocyclyl)aminocarbonyl, phenyl-C₂-C₆-alkenylcarbonyl or heterocyclyl-C₂-C₆-alkenylcarbonyl, where the phenyl and the heterocyclyl radical of the 20 last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals: nitro, cyano, C₁-C₄-alkyl, C₁-C₄-halogenalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

B2 cont

R⁸, R⁹ are C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-haloalkenyl, C₃-C₆-alkynyl, C₃-C₆-haloalkynyl, C₃-C₆-cycloalkyl, hydroxyl, C₁-C₆-alkoxy, amino, C₁-C₆-alkylamino, C₁-C₆-haloalkylamino, di-(C₁-C₆-alkyl) amino or di-(C₁-C₆-haloalkyl) amino, where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halogenated and/or may carry one to three of the following groups:

cyano, C₁-C₄-alkoxy, C₁-C₄-alkylthio, di-(C₁-C₄-alkyl) amino, C₁-C₄-alkylcarbonyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkoxy-C₁-C₄-alkoxycarbonyl, di-(C₁-C₄-alkyl) amino-C₁-C₄-alkoxycarbonyl, hydroxycarbonyl, C₁-C₄-alkylaminocarbonyl, di-(C₁-C₄-alkyl) aminocarbonyl, aminocarbonyl, C₁-C₄-alkylcarbonyloxy or C₃-C₆-cycloalkyl; phenyl, heterocyclyl, phenyl-C₁-C₆-alkyl, heterocyclyl-C₁-C₆-alkyl, phenoxy, heterocycliloxy, where the phenyl and the heterocyclyl radical of the last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

sub
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cont

R¹⁰ is nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;
is C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-haloalkenyl, C₃-C₆-alkynyl, C₃-C₆-haloalkynyl, C₃-C₆-cycloalkyl, hydroxyl, C₁-C₆-alkoxy, C₃-C₆-alkenyloxy, C₃-C₆-alkynyloxy, amino, C₁-C₆-alkylamino, di-(C₁-C₆-alkyl)amino or C₁-C₆-alkylcarbonylamino, where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halogenated and/or may carry one to three radicals from the following group:

cyano, C₁-C₄-alkoxy, C₁-C₄-alkylthio, di-(C₁-C₄-alkyl)amino, C₁-C₄-alkylcarbonyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkoxy-C₁-C₄-alkoxycarbonyl, di-(C₁-C₄-alkyl)amino-C₁-C₄-alkoxycarbonyl, hydroxycarbonyl, C₁-C₄-alkylaminocarbonyl, di-(C₁-C₄-alkyl)aminocarbonyl, aminocarbonyl, C₁-C₄-alkylcarbonyloxy or C₃-C₆-cycloalkyl;

phenyl, heterocyclyl, phenyl-C₁-C₆-alkyl or heterocyclyl-C₁-C₆-alkyl, where the phenyl or heterocyclyl radical of the four last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

R¹¹, R¹² are C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl or C₁-C₆-alkylcarbonyl;

I is 0;

and their agriculturally useful salts.

15. (newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

R¹ is halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, heterocyclyloxy or phenylthio, where the two last-mentioned radicals may be partially or fully halogenated and/or may carry one to three of the

substituents mentioned below:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

R⁵ is halogen, OR⁷, SR⁷, SOR⁸, SO₂R⁸, OSO₂R⁸, OPR⁸R⁹, OPOR⁸R⁹, OPSR⁸R⁹, NR¹⁰R¹¹ or N-bonded heterocyclyl which may be partially or fully halogenated and/or may carry one to three of the following radicals: nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy.

16.(newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

R⁵ is halogen, OR⁷, NR¹⁰R¹¹ or N-bonded heterocyclyl which may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy.

17.(newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

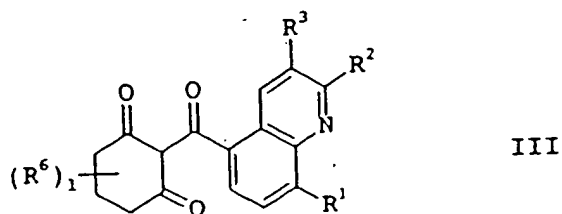
R⁷ is C₁-C₆-alkyl, C₁-C₂₀-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, (C₁-C₂₀-alkylthio)carbonyl, N,N-di-(C₁-C₆-alkyl)aminocarbonyl, phenyl, phenylcarbonyl or phenoxy-C₁-C₆-alkylcarbonyl, where the phenyl radical of the three last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

R¹⁰ is C₁-C₆-alkyl or C₁-C₆-alkoxy;

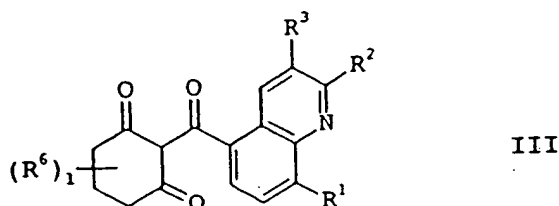
R¹¹ is C₁-C₆-alkyl.

- 18.(newly added) A process for preparing compounds of the formula I as claimed in claim 14 where $R^5 = \text{halogen}$, which comprises reacting a cyclohexanedione derivative of the formula III,

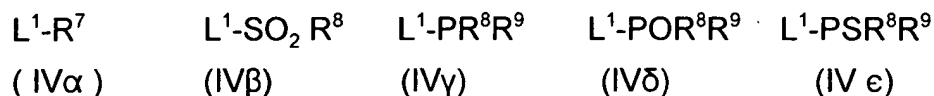


where the variables R^1 to R^3 , and I are each as defined in claim 14, with a halogenating agent.

- 19.(newly added) A process for preparing compounds of the formula I as claimed in claim 14 where $R^5 = OR^7, OSO_2R^8, OPR^8R^9, OPOR^8R^9$ or $OPSR^8R^9$, which comprises reacting a cyclohexanedione derivative of the formula III,



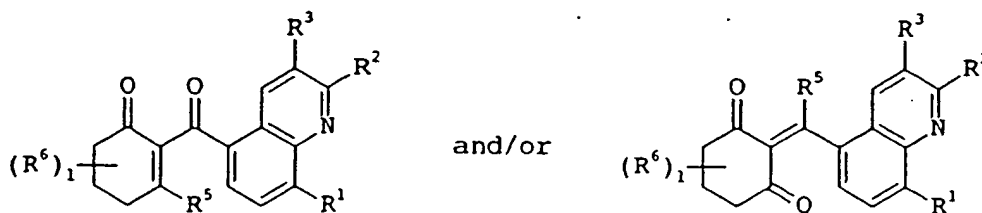
where the variables R^1 to R^3 , and I are each as defined in claim 14, with a compound of the formula $IV\alpha$, $IV\beta$, $IV\gamma$, $IV\delta$ or $IV\epsilon$,



where the variables R^7 to R^9 are each as defined in claim 14 and L^1 is a nucleophilically replaceable leaving group.

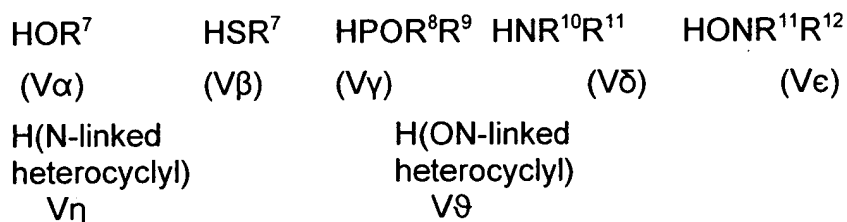
- 20.(Newly added) A process for preparing compounds of the formula I as claimed in claim 14 where $R^5 = OR^7, SR^7, POR^8R^9, NR^{10}R^{11}, ONR^{11}R^{12}$, N-linked heterocyclyl or O-(N-linked heterocyclyl), which comprises reacting a compound

of the formula I α (\equiv I where $R^5 = \text{halogen, OSO}_2R^8$),



I where $R^5 = \text{halogen or OSO}_2R^8$

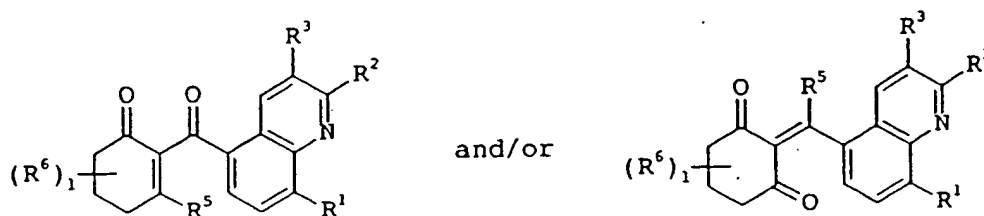
where the variables R^1 to R^3 , and I are each as defined in claim 14, with a compound of the formula $V\alpha, V\beta, V\gamma, V\delta, V\epsilon, V\eta, V\theta$,



where the variables R^7 to R^{12} are each as defined in claim 14, if appropriate in the presence of a base.

21.(Newly added) A process for preparing compounds of the formula I as claimed in

claim 14 where $R^5 = \text{SOR}^8, \text{SO}_2R^8$, which comprises reacting a compound of the formula I β (\equiv I where $R^5 = \text{SR}^8$),



I where $R^5 = \text{SR}^8$

where the variables R^1 to R^5 , R^7 , R^8 and I are each as defined in claim 14, with an oxidizing agent.

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C47
22.(newly added) A composition, comprising a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I as claimed in claim 14 and auxiliaries which are customarily used for formulating crop protection agents.

B2 cont
23.(newly added) A process for preparing compositions as claimed in claim 22, which comprises mixing a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I and auxiliaries which are customarily used for formulating crop protection agents.

24.(newly added) A method for controlling undesirable vegetation, which comprises allowing a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I as claimed in claim 14 to act on plants, their habitat and/or on seeds.

25.(newly added) The use of cyclohexenonequinolinoyl derivatives of the formula I or their agriculturally useful salts as claimed in claim 14 as herbicides.